

THE OREDIGGER

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THE VOICE OF COLORADO SCHOOL OF MINES, A SUPERIOR EDUCATION IN APPLIED SCIENCE AND ENGINEERING

New Head Football Coach Announced

Brandon Conlon

Harvard University's former offensive coordinator and offensive line coach is the new CSM varsity football coach. Bob Stitt replaces Versie Wallace, who was head coach from 1995-1999.

In only one season at Harvard, Stitt set new school standards for total offense in a single game (640 yards), passing yards in a single game (405), first downs in a single game (34) and points scored in an Ivy League game (63). "I'm looking forward to coming to the

Colorado School of Mines," Stitt said before his arrival last Monday. "I'm excited at the opportunity to turn the program around and to create a disciplined team all year round, not just from August to November. Building confidence in the players and ensuring that they are taking care of themselves year round, in all respects, will be a focus."

Stitt earned a bachelor's degree in physical education and business administration from Doane College in

Crete, Neb., in 1986. During his collegiate athletic career at Doane, he competed in football, baseball and track and field. Stitt then went on to earn a master's degree in physical education from University of Northern Colorado. While there, he was graduate assistant running backs coach for two seasons.

Stitt's coaching experience also includes assistant head coach/offensive coordinator/special teams coordinator for five seasons at Austin College in Sherman, Texas.



Brave and crazy students enjoy a spirited game of frisbee on Kafadar Commons despite the snow.

Photos by Douglas Baldwin

Geophysics Has New Department Head

Erin Kock

A former visiting scholar from Carnegie Mellon University is the new CSM Geophysics Department head. Dr. Terence Young hopes to broaden the definition of applied geophysics rather than concentrating on the oil industry. He also hopes to obtain greater funding for the department from industry and wants to assure that CSM can both hire and retain world-class faculty.

"Colorado is really wonderful," Dr. Young says. "The students and faculty have been warm and hospitable. A highlight has been meeting with the graduate and undergraduate students."

Dr. Young graduated from Stanford University with a bachelor's degree in English, later earning his master's and Ph.D. degrees from the Colorado School of Mines. In the late 70s, Dr. Young was an assistant professor in the CSM's geophysics department for three

years. He taught graduate and undergraduate courses.

In addition to teaching, Dr. Young spent several years in industry working for Mobil. He lived in London and was Mobil's exploration team leader and strategic planner for three years.

Dr. Young says the students and the faculty are the most important aspect of his department. "In a way, nothing else matters. The people in the department really define the program."

Young replaces Dr. Phil Romig who left Geophysics to become dean of the graduate school. "It's my impres-

sion that Phil Romig during his period as department head hired world class faculty and developed a strong department with a tremendous reputation and I hope to continue that tradition."



Photo by John West

CSM Hillel Chapter Offers Opportunities for Jewish Students

Faisal Hashem

Jewish students may soon have a Hillel chapter on campus. The Brunton lists the Campus Crusade for Christ, CSM Newman Group, Fellowship of Christian Athletes, Fellowship of Christian Cowboys, and the Latter Day Saints Student Association. But Jewish students, staff, and professors on campus have no representation.

"There are no synagogues in Golden or even nearby," says Jesse Warman, a sophomore Jewish student studying chemical engineering at Mines. "If we had a group, it would be easier to commute to one."

Frani Bickart, our "First Lady of Mines," and adjunct professor Matthew Young, who previously served on the board of the Hillel Council of Colorado, are "investigating the possibility of starting a Hillel chapter at Mines, or, more likely, affiliating in some way with an existing chapter such as the ones at DU and CU," says Mrs. Bickart.

Hillel began in 1923 and has "grown into the largest Jewish campus organization in the world...Hillel network brings to the college world all the richness and diversity of Judaism and Jewishness...Hillel maintains a presence on over 400 campuses."

The scope of Hillel includes social, educational, cultural, and religious involvements to affect "leadership, service and support in the areas of Jewish student life,

Jewish learning," and a host of other pro-active issues. "Campus-based Hillels facilitate, and help students initiate activities that are most satisfying to the students on that particular campus. Jewish students of all backgrounds, secular and religious...come to know each other through Hillel..." www.hillel.org.

Hillel offers program incentive grants, regional event grants, program resources, consultative services, and conference scholarships (for travel and subsidies), as well as hunger banquets and ski trips.

Currently, Hillel has chapters at CU, DU, and the Air Force Academy. Mines is interested in providing these opportunities to its students, staff, and faculty as well.

One example of Hillel activities is the upcoming lecture by acclaimed author Chaim Potok.

If Mines develops a local or branch Hillel chapter, transportation could be provided to this and other similar events.

The Potok lecture is sponsored by the CU Hillel, and will take place at noon on Feb. 9th, in the University Memorial Center at Boulder. Potok's lecture will be on "Unity, Diversity, Creativity: An American Writer's Journey."

Any student, staff, or faculty member who may be interested should contact Professor Young at mmyoung@mines.edu.

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Valentines Day is just around the corner...

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Keep your messages under 25 words and send them to [The Oredigger at oredig@mines.edu](mailto:oredig@mines.edu) by February 4 and we will print them for FREE in the next issue of the paper.



Denver Museum to Exhibit Major Archaeological Find

Display Highlights 1926 Folsom Point Discovery

The Folsom Point, discovered by a Denver Museum of Natural History-sponsored archaeological dig, was recently named one of the "10 Greatest Archaeological Discoveries of the Twentieth Century" by *Scientific American Discovering Archaeology*.

The Folsom Point, near Folsom, N.M. in 1926, is a stone spear point that was found in a fragmented skeleton of *Bison antiquus*.

It provided clear proof that humans have lived in North America since the Ice Age.

Until 1926, it was believed that humans could not have been in the Americas before 3,000 years ago. The discovery of the Folsom Point pushed back the origin of human remains in the New World by 7,000 years.

This important discovery will be on public display through Feb. 14 in the *Hall of Ancient Peoples* at the Denver Museum of Natural History, 2001 Colorado Blvd.

The other nine top archaeological finds of the century are listed below:

- In March 1900, Englishman Arthur Evans' dug into a hillside at Knossos, Crete, and unearthed the Minoan civilization.
- During the 1920s, young Mortimer Wheeler used his wartime experience to refine the systematic 1880s' digging techniques of Victorian General Pitt-Rivers and revolutionized archaeological excavation.
- In the American Southwest, Alfred Kidder of Harvard University excavated Pecos Pueblo and developed the first cultural sequence of early Pueblo cultures.
- Nov. 4, 1922, Howard Carter and his sponsor, the fifth Earl of Carnarvon, discovered the tomb of the boy-king Tutankhamun.
- Leonard Woolley's spectacular investigations at the Sumerian city of Ur and his fluent imagination brought the past to life in ways few archeologists do today.
- During the 1930s, young archaeologist Grahame Clark of Cambridge realized the potential of wet sites to preserve much of ancient environments. Clark found a Stone Ages encampment with well-preserved organic remains. The Star Carr excavations of 1949-1954 resulted in a brilliant reconstruction of Stone Age life 10,000 years ago and has served as an icon of ecological archaeology ever since.
- In 1925, a young anatomist named Raymond Dart described *Australopithecus africanus*, the "ape-human of Africa."
- In the spring of 1947, in a cave beside the Dead Sea, Bedouin shepherds came upon a collection of jars containing the first of the Dead Sea Scrolls.
- In 1959, Louis and Mary Leakey unearthed the robust looking *Zinjanthropus boisei* and, a year later, *Homo habilis* at Olduvai Gorge in East Africa. The potassium-argon dating of the Olduvai fossils to 1.75 million years ago transformed the perception of human evolution and revolutionized the story of human beginnings.

The history of the discovery of the Folsom Point is an interesting story itself.

In 1908, fluted spear points, a mark of the Folsom hunters, were found near the bones of extinct bison. Cowboy George McJunkin made the discovery in Dead Horse Arroyo, near the northeast New Mexico town of Folsom.

This discovery disputed the age of humans in the New World — by 7,000 years — and was met with outright skepticism.

The findings were also criticized since the original bones have been excavated and taken from the site in order to show others, rather than being verified *in situ*.

Although McJunkin showed the bones to notable fossil collector Carl Schwachheim, nothing happened with the bones until after McJunkin's death.

McJunkin, a former slave, was locally re-

nowned for his intelligence and integrity. His acuity in recognizing the site and letting people in the scientific community know about it positions him as a notable figure in African-American history.

In 1922, Schwachheim visited the Folsom site and collected bones. Four years later, he showed them to Jesse D. Figgins, then-director of the Colorado Museum of Natural History (now known as the Denver Museum of Natural History).

Figgins hired Schwachheim in 1926 to direct a dig at Folsom and bones of extinct animals were found alongside fluted spear points. Figgins asserted that the site was at least as old as the bison, by then extinct for 10,000 years. Again, the findings were disputed.

In 1927, Schwachheim found a spear point embedded between two bison ribs. Learning from his earlier excavation, Figgins left his new discovery in place and brought three top scientists to the site to examine the find and confirm the data. Finally, 20 years after the original find, the 10,000-year-old Folsom culture was finally accepted.

The Denver Museum of Natural History is one of the largest museums of its kind in the country with 95 world-renowned dioramas, gems and minerals, and the award-winning *Prehistoric Journey* and *Egyptian Mummies* exhibitions.

The museum will present *What Makes Music?* from Feb. 18 through June 4. The Gates Planetarium closed Jan. 10 for major upgrades and will be reopening in late 2001/early 2002.

The Phipps IMAX Theater is also located at the Denver Museum of Natural History and is host to *Alaska: Spirit of the Wild* through March 5 and *Amazon and Mysteries of Egypt* through May 25. *Dolphins* will play March 10 through February 2001.

Museum and IMAX tickets are \$6 each for adults and \$4 each for children (ages 3-12) and seniors (60+). Combination tickets are available. Admission prices are subject to change. Museum members are admitted free and may purchase discounted tickets to the Phipps IMAX Theater.

Discounts are also available for group of 20 or more. For information, please call (303) 322-7009, TTY (303) 370-8257 for the hearing impaired, or 800-925-2250 outside the Denver metro area.

Car Accident Kills Mines Student

Falsal G. Hashem

Jose Arturo Gonzales died in an auto accident Dec. 19 during Christmas break. "Jose was involved in every sport: track, basketball, and football," says his father. "He received an all-state honorable mention for every year he attended Aguilar High."

At Mines, Gonzales was studying to be an engineer and was a member of the Minority Engineering Program. A friend said he had "superb athletic ability and outstanding academic excellence." Gonzales' grandfather says, "Jose enjoyed hunting, fishing, and arrow-head collecting."

Gonzales, who was 18, leaves Maria and their son Matthew, who is 2. Maria is expecting a second child and if it is a boy, she will name him Jose. If it is a girl, she will name her Josie Ann.

Fire in Camelot

Falsal G. Hashem

The home was 100 years old. Friday, Jan. 21, 6:49 p.m., the Golden Fire Department was called to a smoking house at 920 13th street. The "home was heavily damaged from flames and smoke. Initial damage estimates are \$140,000 with \$100,000 loss to the structure and \$40,000 damage to contents" according to the Golden Fire Department.

The fire took 35 Golden fire fighters with equipment from four fire stations, to tame the flames. Capt. Rocco Snart received burns to his face and right ear. Firefighter Jeff Vorhis received a minor cut on his right. Neither Snart nor Vorhis required medical attention and both firefighters remain on duty.

The Wichmann family—two adults and four children—were out at the time of the fire. Fire fighters were able to rescue the family dog but were unable to save the cat.

Golden fire fighters, Golden police, and Mines police were on the scene until about 4 a.m. The cause of the fire is still under investigation. According to one police officer, a few weeks ago, someone reported a possible hate crime at the house—a swastika painted on the garage door. To date, no connection has been made between the swastika and the fire.



Students juggling more than their social and school lives in the sunshine outside Hill Hall.

Photo by Douglas Baldwin.

Mines Student Wins Big Money

Erin Kock

Who would've thought that the number 49 could mean the difference between \$5,000 and \$19 million?

Brandon Conlon, Colorado School of Mines student, knows the difference, but says he's enjoying the \$5,000 nonetheless.

"I'm just happy with the \$5,000," said Brandon.

Brandon won the December 29th Powerball game in Nebraska. He had four numbers as well as the Powerball, making him one number short of the grand prize.

"I went to Nebraska to visit my mom on December 27 and 28th, and on the way out of town, I bought 10 Powerball tickets," said Brandon.

Brandon didn't discover his luck until a week after the drawing. He had to drive to Scotsbluff, Nebraska to claim the prize because it was more than \$300.

With his winnings, Brandon plans to pay off the motorcycle he bought two months ago.

"The first thing I did [after I picked up the check] was buy five hundred Powerball tickets to try and win the thirty-two million dollars. I obviously didn't win. I'm still at school. I only won eighty-one dollars."



Help Your School

Applications for the following ASCSM positions will be available the first week in February.

ASCSM Treasurer

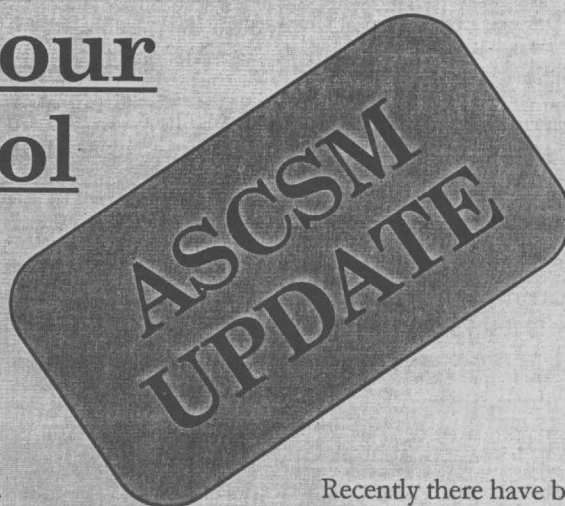
Mines Activity Chair

Homecoming Chair

Friday Afternoon Club Chair

Special Events Chair

Applications for these positions will be available in the Student Activities Office, and nominations for the positions will take place during the February 24th ASCSM meeting.



To Close Or Not To Close

Recently there have been members of ASCSM asking students to fill out questionnaires about their perceived need to close Illinois street. One of the goals of ASCSM this year it is to work on closing Illinois for certain hours during the week, in an effort to promote more pedestrian foot traffic on campus. The goal is to close the street, during the day, from the edge of Meyer Hall up to the Gym.

How do you feel about this issue? ASCSM would like to hear from you. E-mail executive council at ASCSM@mines.edu.

CCHE Turns It's Head

The Colorado Commission on Higher Education (CCHE) has acquired new members with the changing of the mayorship, and with that comes changes in CCHE policy. It has been proposed by the CCHE that students take standardized tests within the higher education system. This may include tests to graduate, and standard testing after the Sophomore year. The CCHE hope to get a better understanding of each schools abilities through standard testing and reward, or punish each school accordingly.

How do you feel about this issue? E-mail ASCSM@mines.edu with you comments.

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At Canyon Point Plaza in Golden Next to the intersection of Washington St and Highway 93

SWE Connects With Local Kids

Lianne Hill

Excitement runs high both for the Colorado School of Mines Chapter of the Society of Women Engineers and those members of the community they have promised to help. With the success of Girl Scout Badge Day last spring and Girls Day last fall, SWE will take an even more active interest in the community this year.

This spring, two main events and one on-going club are scheduled to occur. SWE's second annual Girl Scout Badge Day will be held Saturday, Feb. 5, here at Mines; High School Visitation Day will be held Saturday, March 5, also on campus. These two programs will be held by SWE for Girl Scout troops from around the Denver-metro area. Both events have similar goals: to help girls understand college and college life, especially in regards to engineering and the sciences. These programs are designed to help girls understand what an engineer or scientist really does and to encourage them to explore science and engineering.

The age level that each event focuses on is different. Girl Scout Badge Day is aimed at helping Junior Girl Scouts, ages 8-11, earn one of three technology- or science-related badges with fun activities and demonstrations. The Girl Scouts will take a tour of the Mines campus as an introduction to college, as well as participating in a question-answer session with professors and SWE women. On High School Visitation Day, Cadette and Senior Girl Scout troops from local high schools are invited to Mines for various demonstrations and a college tour. The main event is an information session held with the girls and professors, grads, and undergraduates in each Mines department. This session is expected to help the young women better understand engineering and science schools, the differences between the majors and what, exactly, each major does or can do. The Scouts will also be able to see women in engineering and science fields and get a general idea of college life.

The Curie Crew is another SWE community outreach activity. SWE originally wanted to create a math and science club for local elementary schools, but received little interest. Then the Dream Come True Foundation, an organization dedicated to encouraging students from under-privileged families to succeed in school, contacted them. Now SWE will take its idea of the Curie Crew to help students succeed in math, science, and all other areas of academics. SWE members will provide support and tutoring to the students.

If you are interested in helping with any of these events or with the SWE group on campus, contact Lisa Lassner at llassner@mines.edu or attend a SWE meeting Wednesdays at noon in Coolbaugh 209. You can also check out SWE's webpage at http://www.mines.edu/Stu_life/organ/swe/.

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Girls making Asphalt Cookies at SWE's Girl Scout Badge Day last year.

Photo courtesy of SWE

Student Development and Academic Services Presents: **ACCELERATED LEARNING WORKSHOPS** For Spring 2000

Let's Get Motivated!

Did you begin the new millennium by resolving to stop saying, "I'll do it later?" Despite your good intentions, do you now find yourself having problems keeping up with and getting excited about your classes? Learn some tips on how to stop procrastination and increase motivation!!!!

Wed., Feb. 2, 12:00-1:00 Student Center Rm. 236

Test Your Best

Do you know the material but still don't score well on exams? Conquer anxiety and earn higher scores by learning what to do before and during an exam.

Wed., Feb. 9, 12:00-1:00 Student Center Rm. 236

Balance - Get Good Grades & Still Have Fun

Are you in danger of being a "schoolaholic?" CSM's most successful students DO NOT study all the time. This workshop discusses ways to balance all areas of your life here at Mines as well as in the future.

Wed., Feb. 16, 12:00-1:00 Student Center Rm. 236

Rapid Read Your Textbooks

Read your textbooks in less time and understand the material better! Sound too good to be true? This method actually works!

Wed., Feb. 23, 12:00-1:00 Student Center Rm. 236

For more information call Student Development and Academic Services, 273-3377

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a Million
Smiles
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(303) **278-7241**
2600 East Street, Golden

E-Days Meeting

Tues., Feb. 8th, 7:30pm
Student Center Rm. 234

Come see what's going on with the concert and all the fun! If you have any questions, e-mail jjordet@mines.edu.

Prison Films Driven by Hate, But Redeemed by Love

Brett Maughan

Since none of the films that opened last weekend inspired me to write great works of literature, I have chosen to look a little further into the past. And because I am a little behind the times this week, I have decided to make up for it by reviewing two films, a special bonus for all of you.

The first film, *The Hurricane*, starring Denzel Washington, depicts the true story of champion boxer Rubin "Hurricane" Carter. The film is based off of two books: Carter's autobiography *The Sixteenth Round*, written and published during his 20 years in prison, and *Lazarus and the Hurricane*, written by Sam Chiaton and Terry Swinton, two of the group of Canadians that helped Carter gain his freedom. It seems to me as if the film itself is divided into two separate shows, perhaps corresponding to the two books. The first section deals with the events of Carter's life leading up to the point where the young black man, Lesra Martin, and his Canadian friends enter the picture, and is told in flashback mostly through Lesra reading Carter's book. This section is extremely powerful, both in the harsh statements made about prejudice and hatred towards African-Americans during that period of

Many more intriguing elements of the making of this film can be found at the film's official website at www.universalpictures.com/hurricane.

The second film, Stephen King's *The Green Mile*, starring Tom Hanks, also deals with a black man wrongfully imprisoned, this time on death row. In this case, however, the story is purely fictional, in true King style, and develops a much more timeless and moving tale. The film is set during the Depression era in a death row prison compound in the South, nicknamed "The Green Mile" for its lime-green floor. The story centers on head prison guard Paul Edgecomb (Hanks), who is telling the tale in flashback to a friend in his old-age home, sixty years later. The action combines a variety of smaller stories surrounding the prisoners, the guards, a mouse named Mr. Jingles, and the interactions between them. Meanwhile, all the stories are connected by the overarching story of John Coffey, an enormous, simple-minded black man accused of raping and killing two little girls, who has a supernatural healing ability.

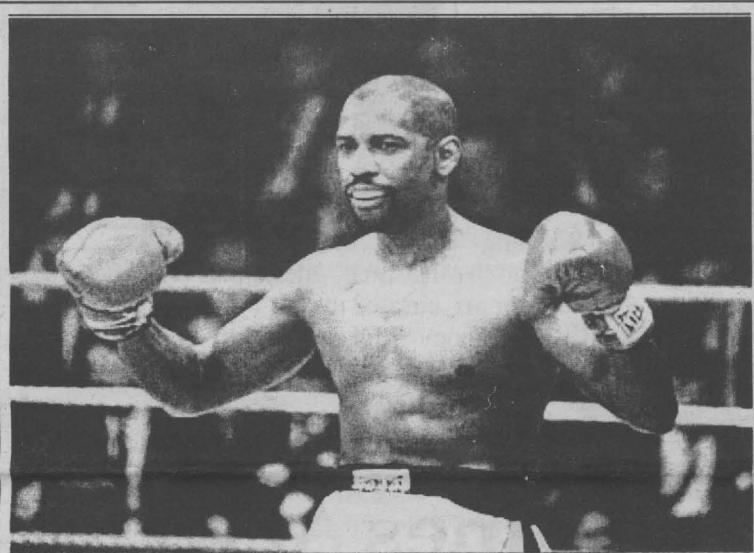
Many amazing components coalesced into the outstanding whole that is this movie. The first, of course, is the author, Stephen King. Considered one of the greatest writers of his time, King experimented with this novel, releasing it in serialized form in six installments over six months, something that hadn't been done in America since the 1920s. King says his choice was inspired by Charles Dickens, who published many of his classic works in this way. The experiment proved extremely successful, culminating in a rare achievement. When the final installment was released, all six books appeared on the Publisher's Weekly national bestseller list simultaneously.

The second factor was the choice of director. Frank Darabont has worked with King before, to a certain degree of success. He developed King's short story "The Woman in the Room" as a student film, and later brought King's "Rita Hayward and the Shawshank

be a hit. But his supporting cast is phenomenal. The cast includes David Morse (*Contact*, *The Rock*), Bonnie Hunt (*Jerry Maguire*, *Jumanji*, *Rain Man*), James Cromwell (*Babe*, *The General's Daughter*, *L.A. Confidential*), Michael Jeter (*Patch Adams*, *Jakob the Liar*), Graham Greene (*Dances With Wolves*), Doug Hutchinson (*The X-Files*, *Millennium*), Sam Rockwell (*Galaxy Quest*), Barry Pepper (*Saving Private Ryan*), Jeffrey DeMunn (*The X-Files: Fight the Future*), Harry Dean Stanton (*Alien*, *The Godfather: Part II*), and Gary Sinise (*Forrest Gump*, *Apollo 13*). This cast has collected, among numerous other awards, six Emmy nominations, two Emmys, four Golden Globes, seven Academy Award nominations, and two Academy Awards. But the real show stealer in this film was also the biggest surprise: Michael Clarke Duncan. Duncan went from being a bodyguard, to a guest stint on a soap opera, to a handful of roles in throwaway movies, to his first big hit, *Armageddon*. And that was

his only hit, until now. For his portrayal of John Coffey, he has received a Golden Globe nomination for Best Supporting Actor, and is a favorite for an Oscar nomination. And he deserves it. To find out more interesting facts about this wonderful movie, visit the official website at www.thegreenmile.com.

So, after all that, what do I really think about these two films, you ask? Well, I think the best indicator would be this: After seeing *The Hurricane*, I left convinced I'd watched a three-hour movie, only to discover later that it was only two hours long. I went into *The Green Mile* knowing it was three hours long, and left convinced it was only two hours. Regardless, each is worth the time and money, as both enlighten, educate, and entertain.



Denzel Washington in the ring as Rubin "Hurricane" Carter.

America's history, and in the development of Carter's individual tragedies within the context of that hatred. The message is further amplified by the portrayal of Lesra's situation, essentially a long-term effect of this hatred toward his people, and the impact Carter's writing has on Lesra's life.

The second section develops the relationship between Rubin and Lesra, and follows the Canadians' investigation of Carter's case, leading to his final trial. This section is more subdued, and begins to drag once it becomes bogged down in the intricacies of the investigation and court case. But it does bring a welcome resolution to the hatred that dominated the film's start. The love of Lesra and his white friends reaffirms the three Canadians depicted in the film lack a great deal of character development and are consequently hard to sympathize with. However, the real life group numbered nine, not counting Lesra, so the filmmakers did their best to find a happy medium between truth and storytelling.

The Hurricane is carried by an engaging and extremely accurate portrayal of Rubin Carter by Academy Award winner Denzel Washington. He was a major driving force in the making of the film, both in front and behind the camera. He spent an entire year prior to shooting building up his body to mirror Carter's, and training as a boxer to emulate Carter's style. Washington was also supported by a handful of talented character actors, including Liev Schreiber (*Jakob the Liar*, *Scream*, *A Walk on the Moon*), Dan Hedaya (*Dick*, *Ransom*, *The Usual Suspects*), Clancy Brown (*The Shawshank Redemption*, *Highlander*), and Academy Award winner Rod Steiger (*In the Heat of the Night*, *Doctor Zhivago*, *On the Waterfront*).



From left: Director Frank Darabont, Stephen King, and Tom Hanks (Paul Edgecomb).



Hanks and Michael Clarke Duncan stargazing.

"Redemption" to the big screen, to critical acclaim. The pairing appears to have been fortuitous yet again.

The final factor in the success of this film is the ensemble cast. With two-time Academy Award winner Tom Hanks in the lead, almost any film is sure to

Denver Museum of Natural History Says Happy Birthday!

The Denver Museum of Natural History invites Colorado residents ages 16 and older to celebrate their birthday at the Museum. FREE!

Visitors must show a valid picture ID with birth date, such as a driver's license or a student ID, for this offer. This offer is valid any day during 2000 that the Museum is open. Free admission applies to general Museum only. Separate admission is required for the Phipps IMAX Theater.

Museum and IMAX tickets are \$6 each for adults and \$4 each for children (ages 3-12) and seniors (60+). Combination tickets are available. Admission prices are subject to change. Museum members are admitted free and may purchase discounted tickets to the Phipps IMAX Theater. Discounts available for groups of 20 or more. For information, please call 303-322-7009.

Fielder Recreates Photographer's Colorado Journey

Maureen Keller

Driving 25,000 miles in his Chevy Suburban and hiking another 500, John Fielder spent a year retracing the travels through Colorado of 1880s photographer W.H. Jackson to see just how much the state has changed in 100 years. Fielder, a renowned Colorado photographer, selected 300 of Jackson's shots to recreate a stunning comparison of then and now.

Fielder presented Jackson's and his own photographs in a slide show Jan. 18 as the first in the LAIS Artist-Scholar Series to coincide with the special exhibit **Rivers: The Song of Life** currently on display at the Foothills Art Center in Golden. "Colorado is a great place to be because it is one of the most, if not the most, beautiful places on Earth," he told an audience of several hundred at the Green Center. When he looked through Jackson's 23,000 glass plate negatives on file at the Historical Society of Denver, he said, "I could see that he, too, had an affinity for all things wild."

W.H. Jackson, who died in 1942 three days shy of his 100th birthday, traveled west in the 1870s on the first U.S. government-sponsored geological survey of the area. He stayed out west and began photographing the landscape for the railroad companies, who used the area's natural beauty to encourage easterners to settle here. Fielder conceived the idea of retracing Jackson's steps for a book, *Colorado 1870-2000*, to be published for the millennium. His talk as CSM was part of a very successful book tour.

Finding the exact location of Jackson's shots required a bit of detective work on Fielder's part. He used boulders, ridges and other geological formations to line up his shots in the exact same spot as Jackson's. Where Jackson's shot showed a mule train on a dusty main street, Fielder's showed a row of sport utility vehicles. Where 100 years ago a winding river mean-

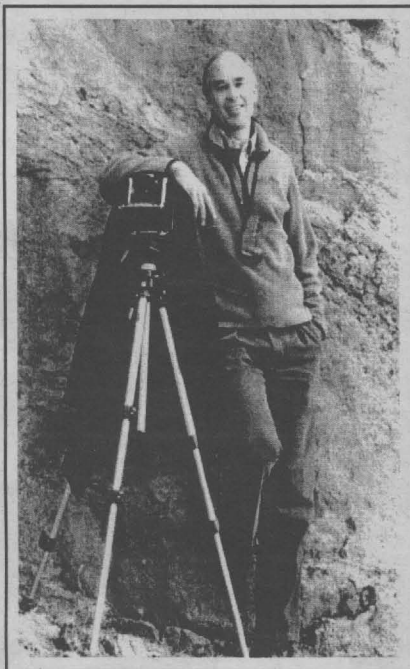
dered through the center of Aspen, Fielder's shot showed a much straighter path, kept in its boundaries by man-made walls. Once wide-open spaces are now crowded with condo developments, historic main streets have been replaced with casinos.

"We haven't always done a good job of protecting the land or its historical buildings," Fielder said, although he praised Golden for resisting the Northwest Extension. "We need better growth management."

Not all was disheartening. Places that have been preserved by state or federal government remain beautiful and somewhat unchanged. Mesa Verde has actually improved as at least one of the ruins has been partially restored. And in Jackson's day, people weren't concerned with preserving nature and felled trees without a second thought. Today's landscape is much more heavily for-

ested than 100 years ago.

The next in the LAIS Artist-Scholar Series will be Charley Heavenrich, a Colorado river guide for 22 years, photographer and author whose latest book is Dancing on the Edge. The free presentation will be at the Green Center, Feb. 1, 7 p.m. A final event, Rivers: Types, Exploration, Trade will be presented by Bob Weimer, CSM emeritus professor of geology, in a brown bag lunch talk noon, Feb. 21 at the Foothills Art Gallery. Rivers: The Song of Life, featuring displays on the art of fishing, photography of rivers and river life, paintings and sculptures by 18 top artists, a science and history exhibit created by CSM and a display of great rivers of the world created by area schools will be at the gallery through March 12. Hours are 10 a.m.-5 p.m. weekdays, 1-5 p.m. Sundays. Admission is free.



CSM ARTIST-SCHOLAR SERIES PRESENTS:

Charly Heavenrich, *Dancing on the Edge*

Charley Heavenrich presents "Dancing on the Edge" Tuesday, Feb. 1, 7 p.m. in Bunker Hall, Green Center. Admission is free. In photography, music and story he recreates exciting experiences from his 22-year career as a river guide on the Colorado River, through the Grand Canyon. After the CSM talk, co-sponsored by the LAIS division Artist Scholar Series, attendees are invited to stop in at a book-signing with Heavenrich at the Foothills Art Center, corner of 15th Street and Washington Avenue. At that time, guests can view the exhibition of river art, curated in part by Ginny Mast, director CSM Geology Museum and by Dr. Bob Weiner, CSM geologist. For more information, call 303-279-3922.



Mines Activity Council Presents:

Comedian Scott Henry
Friday, January 28 - 5 pm
Ballroom A

Milwaukee-born Scott Henry is anything but boring. Moving lithely and casually around the stage, his subjects are more than just bedroom and anatomy humor. Scott touches subjects from jobs and alarm clocks to new cars and marriage. He has been described as having the looks of a young Dustin Hoffman, and the guilelessness of Woody Harrelson. Scott has opened for top national acts and played most of the country's comedy club circuit. He has appeared on VH-1's Stand-up Spotlight, A&E's Evening at the Improv, and Comedy Express. Scott also appears as a regular on the TV game show Make Me Laugh on Comedy Central.

The Art of Kissing
Friday, January 28 - After Scott
Ballroom A

The Art of Kissing uses an entertaining mix of discussion, demonstrations by students, music, slides, and videotape to show: kissing as an alternative form of intimacy in the age of AIDS; how to get over first kiss jitters; methods of making yourself more kissable to the opposite sex; how to avoid kissing diseases; and more! William Cane will delight with tips for more intimate kisses, give advice on where men and women like to be kissed most, bizarre kissing customs from around the world, the newest fads in French kissing, and point by point instructions for today's trendiest kisses.

JSO Combines a Musical Treat With Valentine Sweets

A musical treat and chocolate sweets are in store for audiences throughout the metro area when the Jefferson Symphony Orchestra presents *Beethoven's Ninth* followed by the annual Chocolate Feast after the concert. This is the first concert of the new millennium.

Music Director and Conductor Dr. William Morse who sometimes refers to Beethoven's Ninth as *Diesen Kuss der ganzen Welt!*, will conduct the Jefferson Symphony Orchestra, comprised of 95 volunteer musicians, in the performance of Beethoven's *Symphony No. 9 in d minor, Op. 125*. Distinguished soloists located in the metropolitan area will perform with the orchestra: Jana Edwards, soprano; Marcia Ragonetti, mezzo-soprano; Thomas Poole, tenor; and Steven Taylor, baritone. The Boulder Chorale, directed by Laura Gillette, will be in concert with the Jefferson Symphony Orchestra as well.

Beethoven's Ninth will be performed at the Green Center on the Colorado School of Mines campus on Sunday February 13 at 7:30 p.m. The facility is wheelchair accessible and is surrounded by free parking areas. There is no reserved seating; however, you may call the Jefferson Symphony office at 303-278-4237 to order tickets in advance and for additional information.

MLT in the Springtime

Brett Maughan and Steve Daniel

At last, the verdict is in. The much-awaited announcement of the Mines Little Theatre spring shows is here. And they promise to be a barrel of laughs, or monkeys, as the case may be. (To find out what that means, you'll just have to come to the shows.)

In the 1950's, Tom Lehrer, a teaching fellow in mathematics at Harvard, wrote a number of irreverent, rollicking songs expressing his satirical views on many aspects of Americana. One is hard-pressed to identify institutions or groups at which he did not direct his humorous barbs. Mines Little Theatre will present the musical revue "Tomfoolery," a hilarious exposition of Mr. Lehrer's wit in song, dance, and zany theatrics, as our spring musical. So mark your calendars for April 14, 15, 21, and 22 at 7:30 p.m. in Metals Hall, Green Center. For more information, contact Prof. Steve Daniel at sdaniel@mines.edu.

In addition, a small group of MLT actors will be performing a set of six comedic one-acts by David Ives entitled "All in the Timing." The comedies are well known in theatre circles and have earned rave reviews. "Theatre that aerobicizes the brain and tickles the heart. Ives... is a mordant comic who has put the play back in playwright... A wondrous wordmaster," according to Time Magazine. Performances will be in Student Center Ballroom B, March 31 and April 1 at 7:30 p.m. For more information on that show, contact Brett Maughan at bmaughan@mines.edu.

What's On This Weekend ...

MAC

- Comedian Scott Henry (Ballroom A: Jan. 28 - 5pm)
- The Art of Kissing by William Cane (Ballroom A: Jan. 28)

Around Town

- Rivers: The Song of Life (Foothills Art Center)
- Strip Poker (Mines Park: Fridays - 2 am)
- Komodo Dragons (Denver Zoo)
- Bobcat Goldthwait (Comedy Works: Jan. 28 & 29)

Opening on the Big Screen

- Eye of the Beholder (Ewan McGregor, Ashley Judd)
- Topsy-Turvy (The Gilbert & Sullivan story)

At the Denver Performing Arts Complex

- Colorado Symphony: All Bach (Boettcher Hall)
- Red, White, and Tuna (Auditorium Theatre)
- The Second City (Auditorium Theatre: Jan. 29)

What's On Next Weekend ...

MAC

- The Mapapa Acrobats (Location and Time TBA)

Around Town

- Rivers: The Song of Life (Foothills Art Center)
- Komodo Dragons (Denver Zoo)
- The Judds (Pepsi Center: Feb. 4)
- Chris Tucker (Paramount Theatre: Feb. 5)

Opening on the Big Screen

- Gun Shy (Liam Neeson, Sandra Bullock)
- Scream 3 (Neve Campbell, Courtney Cox)
- Simpatico (Nick Nolte, Jeff Bridges, Sharon Stone)

At the Denver Performing Arts Complex

- Colorado Symphony: Stewart Goodyear - Piano (Boettcher)
- Shakespeare's A Winter's Tale (Stage Theatre)
- Red, White, and Tuna (Auditorium Theatre)

Beyond Mines

Tatiana Dueño

UGLY "BITE-ME" LETTER [#1]

WAIT A SECOND! THIS ABC CORP. REJECTION CARD IS POSTMARKED "GOLDEN, CO OCT. 2, 1999". THE DAY I HAD MY INTERVIEW WITH THEM!!



© T. DUEÑO 2000



Come and pick up Free tickets to any Colorado Performing Arts Showcase Performance in the Student Activities Office.

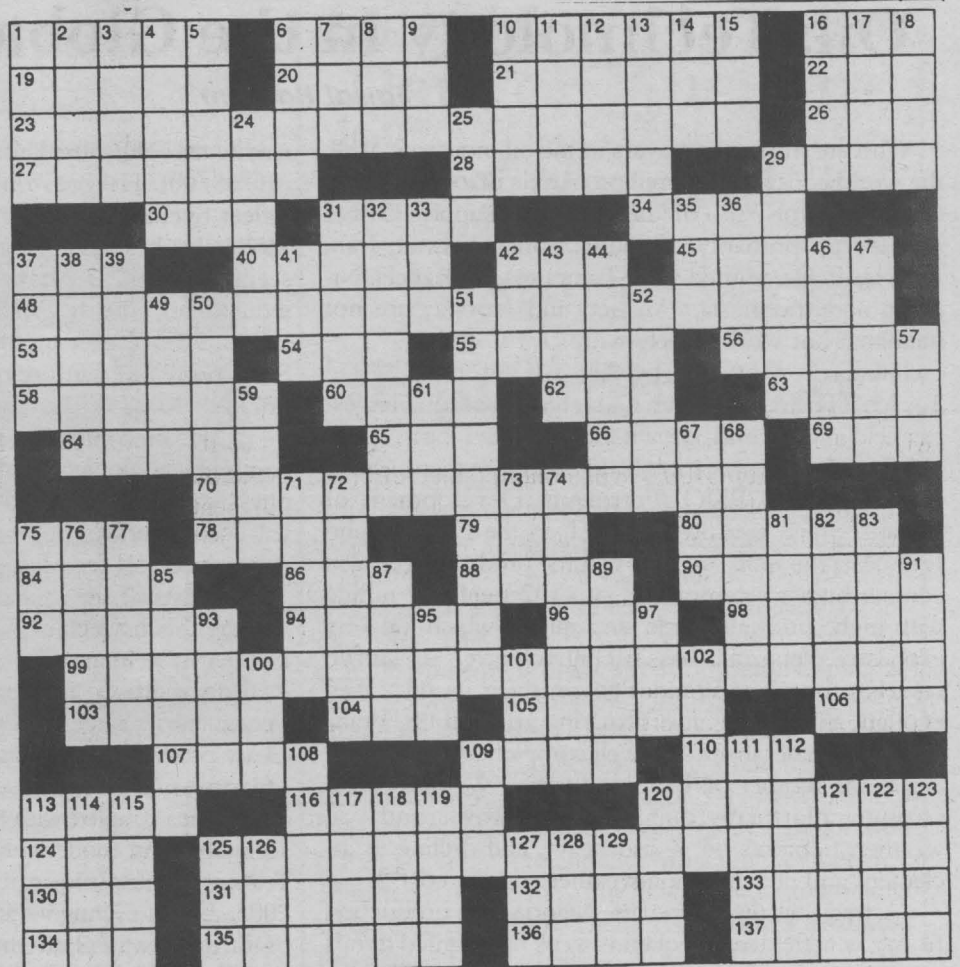
Numerous shows available.
Including A View From the Bridge, Starmites, and All's Well That Ends Well.
Tickets also can be used at some comedy clubs and Creative Music Works Concerts.



For a complete listing of CPAS shows, check out their website - www.daradexpub.com

Super Crossword

ACROSS	60 Mister, in Munich	106 Vane letters	8 Colorado native	44 Dimly illuminated	89 Soporific substance
1 A lot	62 Architect's add-on	107 Tend the garden	9 Saloon	46 Solitary sort	91 With
6 Bungle	63 Harness part	109 Pipe part	10 Trauma aftermath	47 "Wake Up Little —" ('57 hit)	31 Down, '58 Frankie Avalon hit
10 Makes a touchdown	64 Radio and TV	110 Cry of discovery	11 Spelunker's spot	49 Card collection	93 Qualified
16 Hen's hubby	65 Duncan's denial	113 Spanish dance	12 It bakes the cake	50 Silverware city	95 Squirrel's snack
19 Deck type	66 "— a Song Go Out of My Heart" ('38 tune)	116 Allen's partner	13 Alex Haley book	51 From now on	97 "The A-Team" actor
20 Ford or Grey	69 — Bank, NJ	120 Passed into law	14 Directional suffix	52 Opening remark?	100 Manipulate
21 Frolic	70 Part 3 of remark	124 — Baba	15 Sault — Marie, MI	57 Wrap up	101 Toque or tam
22 Poster abbr.	75 HST's successor	125 End of remark	16 27th president	59 Place to pontificate	102 Hotelier Helmsley
23 Start of a remark by Jack Simmons	78 On the briny	130 — Buddhism	17 All right	61 Unrefined	108 Salivate
26 Distant	79 Service charge	131 Lunar spacecraft	18 Chico or Karl	67 "Gracious me!"	109 Silly Caesar
27 Expensive appetizer	80 Disconcert	132 Skater Heiden	24 Textbook headings	68 Trinidad's neighbor	111 Basketball's Elvin
28 Common contraction	84 Cubist Rubik?	133 Kovacs or Pyle	25 "Bali —"	71 Voltaire, for one	112 Paint pigment
29 Charon's river	86 Business abbr.	134 Actress Caldwell	29 Finn's friend	72 Reagan and Wilson	113 "All That —" ('79 film)
30 Wallace or Whitney	88 Starchy tuber	135 Scrimshaw material	31 See	73 Teachers' org.	114 Toast topper
31 Moore of "G.I. Jane"	90 Moved like a mouse	136 Mr. Walesa	32 Distinguished	74 O'Hara's "From the —"	115 Prong
34 Writer	92 — del Sol	137 Cassandra and Merlin	33 Flavor enhancer: abbr.	75 Cal. page	117 Eye appreciatively
35 Paretsky	94 Teatime treat	DOWN	35 Honest name	76 Sag	118 Flatfish
37 Actor	96 Tachometer meas.	1 Fountain order	36 Durban dough	77 Follow	119 Before long
40 Hangs tinsel	98 Lawn ornament	2 Nursery furniture	37 Word form for "study"	81 "New Yorker" cartoonist	120 Engrave
42 Command to Fido	99 Part 4 of remark	3 Alan of "California Suite"	38 — Zimbabwian, Jr.	82 Tend a fire	121 Mood
45 Cries like a baby	103 Lots of laughter	4 Holmes' creator	39 Rock's — Poneys	83 Macho types	122 Kuwaiti ruler
48 Part 2 of remark	104 JFK lander	5 Reel	41 Ring official	85 Canada's capital	123 Poor grades
53 React to a pun	105 Intense	6 Take off	42 Missouri airport abbr.	87 Dovecote sounds	125 Zipper part
54 Enthusiast		7 Tyler or Ullmann	43 Presque —, ME		126 — Locka, FL
55 "Dallas" matriarch					127 Form of comm.
56 Lummoxlake					128 Mine find
58 Had a hankering					129 Incite Rover



Courtesy of King Features Syndicate, Inc.

The Great Snowboarding Odyssey Continues in Washington

Terra Rogers

Murphy's Law of what can go wrong will, waited until 4:30 am the next morning to kick in. A faulty window snowboard rack shattered the passenger side window on I-15 just an hour north of Ogden, dropping our most prized possessions on the interstate while driving approximately 95 mph. Had I not been sleeping with a blanket over my face we would have had more severe issues to deal with. This was a small price to pay to the snowboarding gods. Needless to say we spent the day making Mitsy (our Mitsubishi), road-worthy again. Fortunately, I chose a Ritalin-deficient photographer, Amy, who would never let the mood slip. We continued our ritual of urinating on all state borders... just marking our territory.

Depression set in around Sun Valley in Idaho when we realized that we must sacrifice a day of boarding in order to stay on schedule. We drowned our sorrows in the quaint town of Ketchum and chose a comfortable highway shoulder to park and sleep.



The next morning Amy woke me by singing to the worst country music I had ever heard: music they must reserve for Idaho residents only. We were on our way to Washington. 49 Degrees North was the resort that got us back on the snow, 12 driving hours later. Speaking of snow, 49 Degrees North does not own a single snow machine, something unheard of to this Colorado native. The 100% naturally deep and desert dried powder is maintained by their northern exposure, which also keeps the snow from becoming slushy and then crusty. There is nothing better than good snow, except for when it is free. Yes free, in order to promote spring skiing, 49 Degrees North plans to invite bands each night and offer free ski passes April 3rd through the 9th. I immediately fell for the welcoming resort. I was able to test-ride a rental board there; mine was being fixed in Spokane only 30 minutes from the resort. That board performed impressively on the uniquely designed tree runs that make up 400 acres of their terrain. The concept of purposefully thinning trees to cater to those that enjoy dodging branches is new to me. I think this variety is something more resorts should look into. The moss that hangs from the trees in the Pacific North West is also something to get use to, I continued to believe they were rocks and tried to avoid the thousands of dark spots, an impossible task. By the end of the day I recovered from my fear of the non-existent rocks and discovered their trail map, which pointed out access points to the USFS backcountry. Amy and I immediately found these points with the help of Dave McBarron, the assistant director at 49 Degrees. The powder pockets that were opened up to us were unforgettable. I cannot imagine recreating that euphoric feeling of fresh tracks weaving through the towering pine trees of Washington.

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Terra enjoying the all-natural Washington powder.

Oil: Technology in the Global Picture

Faisal Hashem

Who are the major players in the oil industry? Well, the world consumes 72 million barrels of oil a day, and OPEC controls 70% of the world's oil supply. OPEC is made up primarily of Saudi Arabia, Kuwait, Iran, Iraq, UAE (the United Arab Emirates), Venezuela, Nigeria, and Indonesia. Mexico and Norway are not members but work closely with OPEC.

Bahrain is controlled by Caltex (California Oil and Texaco). Their oil is heavy. Qatar has the second largest gas field in the world, known as the North Dome. Shell Oil started it but now Mobil and others are there. Oman is produced by PDO (Petroleum Development of Oman), which is really Shell Oil. In the Far East and Indonesia the wells are high volume producers but also contain high concentrations of CO2 requiring tubing with high chromium base steel alloys, which are very expensive. Venezuela has 250 billion barrels of known reserves, but doesn't want to produce its oil. Well enough, as it's heavy too, requiring artificial lift. Brazil today is a leader in sub-sea well completion. The North Sea is the mother of bad conditions. We must build stronger platforms due to strong waves and bad weather. Canada's oil is also heavy, and drilling in inclement and encumbering weather adds to cost.

"A huge oil discovery off Nigeria and production from a new field in Angola this week highlighted trends in world energy and increased the stock prices of Texaco and Chevron," writes James Flanigan in his article "In-

ternational Oil Picture Shifting" in the Houston Chronicle (01/08/00). He goes on to say, "The developments reflect overall oil company success in Africa. Exxon Mobil also has made Angolan discoveries. Asia too is seeing new oil. In Bohai Bay, off China's populous, industrial northeast, Phillips Petroleum is drilling one successful well after another, delineating a giant oil field. Such finds are reinforcing the trend to moderate oil prices..."

Today's oil companies are masters of computers and communications technologies, geology, chemistry, and physics. Thus Africa, Asia, and the Western Hemisphere will soon diversify the oil sources and reduce the West's dependence on the Middle East.

Forecasts of rising energy demands in Asia, Europe, and the U.S. have caused concerns of higher oil prices. But that won't happen. Currently analysts predict that in the spring, OPEC will have to raise production. Venezuela, Iran, and other OPEC countries want to increase production, increasing revenue for their strained economies. For now, and in the longer term, new oil discoveries coupled with new technologies will keep oil accessible and moderately priced. "The big field that Texaco has just confirmed...will be in production by 2003...Fields in Angola and other African Countries - or in deep waters of the Gulf of Mexico - can be brought to production within 18 months," says Flanigan. That's why future oil production will be sufficient to

Kayaking a Thrill for Students

Dain McColg

The sport of kayaking allows us to get away from everything and just have fun. With a little explanation and a little pool practice, anyone can tackle a river. It's not just a "team" sport, but an individual challenge as well. You can see what you are capable of. You can see how crazy you can be. It is extreme. It is one of the greatest thrills out there.

The Mines kayak club is the best deal around. Whether you are an experienced kayaker or just beginning, it's the cheapest way to go. Every year the club buys the newest and most up to date boats. Boat rentals are free to anyone in the club, all year around. The club has everything you could need to get in the water. Trips are planned all year around, and to the most beautiful kayaking spots there are. And every Monday night, from 7:30 to 10:00, pool sessions take place at Volks gymnasium where anyone can "get there feet wet" with expert tutelage. All this for \$15 a year.



April 22 & 23, 1999, at the Clear Creek Whitewater Park, the Mines kayak club hosted the first ever inter-collegiate kayak races. It went really well. And it was a blast. This year we are planning the second annual IKR. There will be even more events, and hopefully more teams from other schools around the state, and some from out of state, will come to Mines to compete. Events will include a slalom race, rodeo events, water polo, and a bowtie race. Raffle prizes, food, and companies demonstrating their equipment will also be there. This year the kayak club has generous sponsorship from the Golden Hotel and Poor Boy Bagels.

Mines kayak club is a way to get into what would



otherwise be an expensive sport, without sacrificing the quality of your experience. Currently, the club has 110 members from largely diverse backgrounds.

If you are interested in joining the Mines kayak club, contact Jim Horan at jhoran@mines.edu or Jessica Semmler at jsemmler@mines.edu.

supply moderately priced energy in a growing world economy. All this is why "the stock market bestows relatively higher valuation on the bigger companies, says Doug Tenneson, an oil analyst for Morgan Stanley. 'Super majors, such as Exxon Mobil, BP Amoco and Royal Dutch/Shell, and majors, such as Chevron and Texaco, have the skills and the capitol to operate anywhere in the world. Investors are saying that promises long-term returns,' he concludes."

Oil is everywhere. Technology is the key. And in the next issue I'll tell you why most of this oil, which until now has been so hard to find and produce, is suddenly no longer a worry.

Love Day?

It terrifies men - sends chills through their bodies and leaves their knees quaking. It depresses half the women and sends the others into a deliriously happy flower and chocolate world. Unfortunately, I don't live there. This dreaded and fearful period of time is known as Valentine's Day.

My experiences with Valentine's Day? A lack of anything even the slightest bit romantic. I'm not the type of girl who wants to be showered by millions of dollars in roses, candy, teddy bears or even the Hope Diamond. I just want a little love and affection- some little thought would be greatly appreciated.

I would really like to know who decided that this torture would be so much fun. No one is ever really happy on Valentine's Day. The girl with the wonderful, thoughtful boyfriend is never happy. The chocolates weren't Godiva or the flowers weren't her favorite color or the diamond simply wasn't big enough. The guys with girlfriends hate the holiday because they know what she is thinking. They know that whatever they do, the girls will never react like they do in the commercials about the dumb day anyways. The single girls have to watch this showering of affection, green with envy, only to hear that high maintenance girlfriend spend the rest of the day whining. The only real winners here are the single guys. Live it up boys- no stress, no worries and no pricey diamonds.

I wish I could feel this way. Unfortunately, some sappy romance comes into my head, combined with those childish dreams of never-ending love and Prince Charming sweeping me off my feet and carrying me off into the sunset. Instead, it seems more like those old movies. Scarlett O'Hara and Rhett Butler come to mind - the guy rides off into the sunset alone.

Cassia Calleos

Hanoi John

I admit it. I love to hate the Braves. I have passed countless evenings cheering for Atlanta's many dates to the October dance that brings Baseball to prime time. My affinities have shifted from Minnesota to Pittsburgh, Toronto, Cleveland, and New York. I remember mocking Jane Fonda's prayers that Francisco Cabrera would bring home the winning run in '92 and then sitting there in disbelief as they came true. I guess it was their never-ending squad of pitchers, their tomahawk chop, and the way they came into Wrigley field during the regular season and ripped my Cubbies limb from limb.

But in light of the uproar over John Rocker's racist remarks, I have no choice but to come to the defense of an Atlanta player. It's not that I agree with his ignorant viewpoint, but I will "Defend to the end," as Voltaire said, "his right to state it."

The reason for this whole fiasco is not, however, that people are dead set on taking away John Rocker's freedom of speech. It is that have bought into political correctness - the great double standard sweeping America. It seems as if only white males are bound by these unwritten "rules" of political correctness, and therein lies the double standard. Black comedians can joke about "whities" to their hearts content, and no one will say a word, but stop and think, if you will, what would happen if a white comedian returned the favor. Heaven forbid!

John Rocker's name will be infamous because he has not picked up on the latest social cliché's. He is an ignorant, racist, man, but HE HAS BROKEN NO LAW. There is, however someone affiliated with the Braves organization who has. The owner's wife, Jane Fonda, if you will remember, rallied the Viet Kong during the Viet Nam war. Whereas racism isn't a transgression of our first amendment, treason is.

So I blame Rocker for the flaw of assumption. He assumed that the law would protect his freedom of speech. He was wrong. Political correctness has replaced the rule of law and we exalt Laurence Taylor, Michael Irvine, and OJ Simpson for the athletes they are while we grimace our cherubic faces at one of the best closers in baseball because we don't agree with him.

Matt Walsh

Cloning

The Debate Over Cloning

Recently a breed of goat became extinct in Spain spurring a debate about whether or not to clone it. The debate is not really about the goat, even though it was the last of its species. The real issue here is whether or not anything should be cloned, including this now-extinct goat. Arguments rage over what is ethical in regards to cloning, whether or not we should clone people and what the uses of a clone would be. Is it ethical to play God? How do we decide when cloning is okay and when it's not?

Possible Benefits of Cloning

First, let me say that cloning is not just making copies of people and animals. Cloning technology will allow us to breed tougher livestock and agriculture, rescue species faced with extinction, eliminate genetic defects, help infertile couples conceive, understand aging, and create human organs and body parts that can be transplanted without rejection. This is just in the foreseeable future. Many more uses will surface as we understand even more about the subject.

Now if you believe it is wrong to tinker with God's will, then you are making an assertion and there is no room for debate. But I ask, is it right to deny people all of the benefits that will come from cloning, just because of your beliefs? I defy you to tell someone that they will not get an organ transplant, have their own child, or get a new limb just because you feel cloning is immoral. Would you be justified in denying someone the ability to conquer paralysis through the use of cloning? Christian Scientists don't believe it is right to take medicine. But would it be fair if no one could be medicated because a portion of the population asserts it is wrong?

People are afraid cloning will make all people, livestock, and agriculture the same and we will not be resistant to plagues. As for people, there are more than six billion of us and it is unlikely that any time soon we will lose our genetic diversity due to cloning. As for livestock and agriculture, they are businesses. Farmers and ranchers are always looking out for their own best interests, as all good businessmen do. Think about how people diversify their investments. They are protecting themselves in case something goes wrong with a portion of their portfolio. Businesses are the same way. They aren't going to put all of their eggs in one basket. Cloning will help scientists learn how to fight these diseases that may strike.

What practical uses are there for a clone?

It was recently reported that a certain goat in Europe became extinct. However, before the goat died researchers took a small tissue sample from the goat. Now they are debating whether or not to clone the goat. The implications of this are tremendous: could we bring back the carrier pigeon, or perhaps the dodo? Perhaps even Michael Crichton will be a prophet if we try and clone dinosaurs. However, I believe public opinion will not allow that to happen. These and other speculations are the realm of science fiction and perhaps future scientific discovery.

Cloning dinosaurs, extinct birds, or goats is not my concern, though. They hardly measure up to the more important question of a cloned human being. Some may speculate about cloning Hitler, or perhaps George Washington. My entire concern is over the precedent. Once one person has been cloned, others will follow. The problem with cloning a human being is that there will be many failed "experiments" just as there are many Dollys who just didn't make it.

Here we present two sides of the story. Perhaps cloning will offer a solution to the shortage of organs used in transplants or bring back extinct species. On the other hand, cloning could be like opening Pandora's box. Are clones property? Is a clone of Einstein going to be a genius, or perhaps handicapped? There's no telling what lies on the other side of our technological advancements.

The human species may never again be the same, for better or worse.

Many animal species have met their demise because of humans. We can attribute the dismal state of nearly all of the animals on the endangered species list to human proliferation. Cloning can help undo some of the devastation we have done. Many species may have a new chance at life thanks to cloning. After all, Noah didn't save all those animals for his ancestors to just kill them off.

The benefits that will come from cloning are incalculable. Right now, we are at the very beginning of the cloning age. Think of cloning as being like computers. We are in the same stage in cloning where we were when computers took up entire rooms and required punch cards. Back then, no one could envision where computer technology would be today. Now, we can only see a few promising benefits on the horizon for cloning. As we learn more, now unimaginable ways to use cloning will open up. Imagine if the computer was outlawed many years ago. We would be much less knowledgeable about the world and much less technologically advanced. We know a lot more now thanks to computers. And like computers, cloning will be a tool that will help us to better understand ourselves and our surroundings. And since the beginning of recorded history man has spent enormous resources trying to understand himself and his surroundings.

Think of the possibilities. Someone could produce extra intelligent humans who could break the shackles of our primitive brains. Einstein's brain was only slightly different from those of the rest of us. Yet he was still far superior in certain areas and helped us make huge strides in our understanding. Animals could be made smarter through cloning. We could find out what it is that really makes us human. Food production will be more efficient, so there could be more food to go around to feed the world's starving. Life will be less painful thanks to cloning. We will have a greater understanding of ourselves and the universe that we are faced with. What could be grander?

Scott Daniels

What happens to the clones that don't come out right? What happens to the one that does? Will the clone be considered the same as the person who was cloned? Will the clone be considered a separate individual or property of the person whose was cloned them or who did the cloning? Imagine, we could have a whole army of clones ready to do our dirty work, slavery resurrected. Or perhaps we would take advantage of another aspect of clones, complete organ compatibility. No longer would we have to wait until someone with our blood type died. No, we could have a perfect replacement organ by "harvesting" the organ from our clone. Already we are taking strides in this direction by harvesting organs from aborted babies to save other babies lives. We have harvested the brains of aborted babies for Alzheimer's research. These gruesome details may make you shudder and doubt the validity of my claims. I can assure you it is happening and has happened. This is why I am concerned about our future. To avoid entering into gray areas of defining and classifying humans we should continue our ban on human cloning.

James Olfmans

Oredigger of the Week

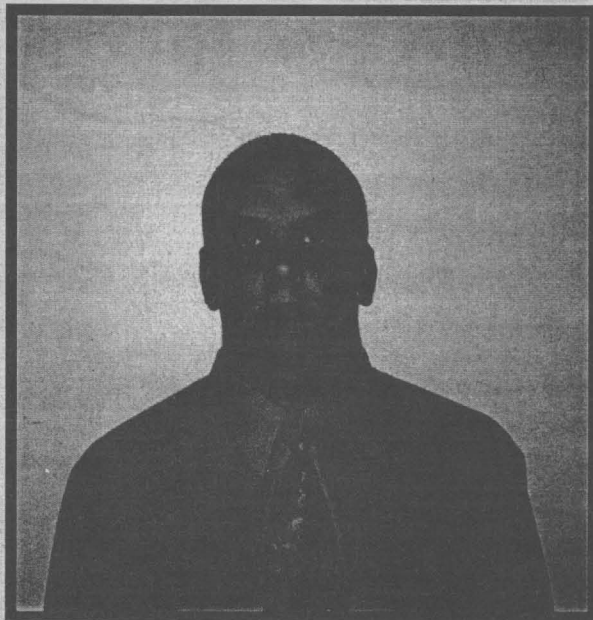
Matt Chase

Wrestling
5'10", 174 lbs, Junior
Vancouver, WA
Evergreen High School

Since Thursday, January 13th, Chase (lower, in dark uniform) has posted a 8-2 record, including a 2-1 mark and third place in the 174-pound weight class at the Colorado Collegiate Wrestling Tournament at Mines on January 15th.

On Thursday, January 13th, Chase won his bout at Northern Colorado by the score of 14-6. The following night at Mines, he beat his Western State opponent 8-6. Chase went on to take third place in his weight class the next afternoon in Colorado Collegiate Wrestling Tournament at Mines.

Last week, Chase won 8-3 over his Adams State opponent at Mines on Wednesday and this past weekend, he compiled a 3-1 record, including a technical fall, at the 2000 NWCA Division II National Duals in Omaha, Nebraska.



Mines Basketball Goes 3-1 On Weekend

By Reece Bollinger

The Lady Orediggers had a perfect weekend winning both of their games. In the 70-46 blowout against Adams State, Mines was led by sophomore forward Marissa Eichhorn, who scored 16 points. On Saturday, the Lady Diggers overcame a one point half-time deficit to beat New Mexico Highlands 60-56. Amy Bollinger led the Orediggers with a game-high 20 points and senior forward Kristin Dillard pulled in 15 rebounds. The women are now 5-5 in conference and 7-9 overall.

The men's team took a split on the weekend. In Friday night's game, the Diggers (9-7 overall, 6-4 RMAC) pulled out a 77-75 win over Adams State. Sophomore guard Justin Kaliszewski's 23 points led the way for the Orediggers. Saturday night, Mines lost to New Mexico Highlands in overtime 82-81. In the loss, the Diggers had four starters in double figures including, 19 from Kez Kennedy, 14 from Sam Handsborough, 13 from Ben Esplin, and 11 from Mike McNish.

Wrestlers Compete In National Duals

Last weekend, the team competed in the 2000 NWCA Division II National Duals at the University of Nebraska-Omaha. The CSM grapplers won one dual (18-16 over Carson-Newman) and lost three, giving them a 1-10 overall mark. At the National Duals, Matt Chase and Nate Mascarenas each went 3-1. Chase has posted an 8-1 record since January 13th and is now at 14-12 for the year.

The team will go to Fort Hays State University this Friday and then head up the road to the University of Nebraska-Kearney for another RMAC dual on Saturday evening.

For More Information Contact: CSM Sports Information Director Jeff Duggan at 303-273-3095, call the CSM Sports Information Hotline at 303-273-3177 or visit the Mines Athletics' website at www.athletics.mines.edu

Track and Field Teams Have Good Showing At CU Meet

The men's and women's indoor track & field teams competed at the Colorado University Invitational this past Saturday.

For the ladies, Judy Toel broke her own school record in the high jump, successfully leaping 5 feet and one inch. Charity Garrison finished third in the long jump with a mark 16'-3.75" & fourth in both the 55 meter dash (7.69) and the 200 meter dash (28.3 seconds). Sarah Hunke placed fourth in the shot put, as well, with a mark of 36'3".

On the men's side, the CSM mile relay team of Dayven Johnston, Jim Beideman, Ben Lengerich and Eamonn Gardner placed first with a time of 3:22.9. In

the 400 meter dash, Johnston finished first (48.4) just ahead of teammates Derek Swanson and Beideman, who came in second and third, respectively. Jesus Salazar finished third in long jump (21'-11.50") & second in the triple jump at 44'-0.50". In the mile run, Chris Hammitt finished fourth with a time of 4:34.9 and Geoff Streit sixth with a run of 4:40.3. Lengerich, Gardner and Brandon Desh finished 3, 4 and 5 in the 800 meter run.

Coming up this week for the track and field teams will be the U.S. AirForce Academy's Collegiate Invitational. Next weekend, Mines will host the Joe Davies Invitational in the Steinhauer Fieldhouse.

Oredigger Swimmers Sweep Metro State

The Oredigger men's and women's swimming & diving teams competed in the Denver University double dual meet this past Saturday and swept Metro State. The CSM men beat MSCD 54-50 and the ladies beat Metro 72-38.

The women, who won 8-of-13 events, were paced by Holly Daugherty, Aimee Lorda, Jen Evans and Kathy Summerville. Daugherty, who also swam on CSM's victorious 400 yard freestyle team, won both the 100 freestyle and the 200 IM. Lorda, Evans and Summerville each won events for the ladies, too.

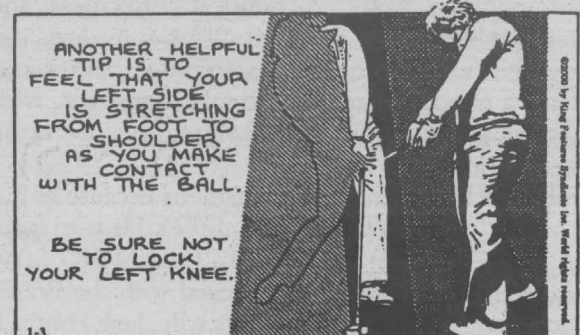
Freshman Brooks Masterson won both the 200 Freestyle and the 400 Freestyle while also swimming on the winning men's 400 freestyle relay team with Jeramy

Zimmerman, Ben Lichtwardt and diver Matt Baer. In just his first season at Colorado Mines, Masterson has already broken six school records.

The Mines men are currently ranked 16th in the nation in NCAA II. Last Friday night, the teams swept Colorado College in Colorado Springs. The ladies (6-3 for the season) won 147-69 while the men (3-4 in 1999-2000) brought home a 149-73 win. At CC, the women won 9-of-13 events while the men won 7-of-13 events.

Next up for the teams will be the Pacific Collegiate Swimming Conference Championships on February 10-12 in Long Beach, California.

Play Better Golf with JACK NICKLAUS



\$15 Lift Tickets
to Copper Mountain!!!

Blue Key Winter Carnival

Tickets go on sale Thursday, Jan. 27
in the Student Center
from 11 a.m. - 1 p.m.

OUTDOOR RECREATION February

EVENT	DATE	DEADLINE	COST	NOTES
The Basics of Bike Tuning	February 2nd	none	\$5/\$10	6-7pm in the ORC
Wheel Building clinic	February 4th	February 4th	\$25/\$30	1st in series of 4
James Peak hike	February 5th	January 26th	\$15/\$20	9 mile RT, 13'er on the Divide
Ski Shuttle	February 5th	January 26th	\$10	Winter Park
Ice Skating	February 5th	January 26th	\$8/\$15	prices vary w/ instruction & equipment
Brakes & Derailleurs clinic	February 9th	none	\$5/\$10	6-7pm in the ORC
Wheel Building clinic	February 11th	February 4th	n/a	2nd in series of 4
Ski Shuttle	February 12th	February 2nd	\$10	Keystone
Ski Mountaineering	February 12th	February 2nd	\$15	experienced skiers only
Ice Skating	February 12th	February 2nd	\$8/\$15	prices vary w/ instruction & equipment
Beginner Ski & Snowboard Lessons	February 12th	February 2nd	\$50	*****ADDED COURSE*****
Snow Biking	February 12th	February 9th	\$30	includes equipment, lift ticket & lesson
Snow Tubing	February 12th	February 2nd	\$25	Keystone
Headsets & Bottom Brackets clinic	February 16th	ndne	\$5/\$10	6-7pm in the ORC
Wheel Building clinic	February 18th	February 4th	n/a	3rd in series of 4

IM Schedule for Spring 2000

Event	Date
<u>Wrestling</u>	Feb. 1, 2
<u>5on5 Indoor Soccer</u>	Jan. 27
<u>Free Throw Contest</u>	TBA
<u>Volleyball League</u>	Feb. 7
<u>Raquetball Tourney</u>	Feb. 8
<u>7on7 Outdoor Soccer</u>	Feb. 9
<u>Cycling Time Trials</u>	Feb. 16
<u>Inner Tube Water Polo</u>	Mar. 2
<u>Softball</u>	Mar. 3
<u>Roller Hockey</u>	Mar. 9
<u>Swim Meet</u>	Apr. 3, 4
<u>Powerlifting Meet</u>	Apr. 5

For more information, stop by the Intramural Office located in the Volk Gymnasium, or e-mail btelesca@mines.edu. Registration forms are available outside the IM office.

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3on3 Basketball Tournament

ESPN.com



SATURN.

Registration Info:

Registration Forms Available
in the Volk Gymnasium,
Outside the Intramural
Office!!

Registration Deadline:
Jan. 24th 2000, 3pm

Start Date & Time:
Jan. 24th, 7pm
in the Field House.

*For more info call the IM
Office at 303-384-2273 or
e-mail btelesca@mines.edu

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Miner Notes

APO

APO meets in Meyer Hall 357 on Wednesday at 7:00 PM. For more information, contact Ian Nickerson at inickers@mines.edu

Bridge Club

If you would like to play cards and want something more interesting than hearts or spades, why not try bridge? The CSM Bridge Club meets every Tuesday at 7 PM in the Coolbaugh atrium. Player of all skill levels are welcome. Don't know how to play? We gladly offer lessons for new players.

Board of Publications

If you have complaints regarding any of the three student publications at the Colorado School of Mines, please feel free to contact a member of the board of publications. You can email the chair at clanders@mines.edu or the ASCSM representative at wtrainor@mines.edu or call (303) 273-3784 and leave a message for Whitney Trainor.

Campus Crusade for Christ

All are welcome to join us, for our weekly 737 meeting. It is a place to hang out with friends and talk about life. The meeting is held every Thursday at 7:37 pm and is located at First Baptist Church of Golden on the corner of 19th and Washington. Afterwards, we will be going to the Golden Grind for food and fellowship.

Catholic Newman Group

Anyone is welcome! A discussion group for contemporary issues. Every Tuesday night at 8:30 pm; 2nd floor of the Green Center in the Ted Adams Room. Contact Matt at 303-271-0654 or mlengeri@mines.edu for more information.

Circle K

Come find out about the world's largest student run service organization. Meetings are held Tuesdays, 6 PM at the Student Center in room 236. For more information contact clapok@mines.edu

CSM Concert Choir

The CSM Choir is open to everyone!! Come sing jazz, classical, and contemporary pieces with us every Thursday from 4-6 pm in CO 209. Questions call Matt at 303-271-0654 or email mlengeri@mines.edu.

E-Days

E-Days 2000 is coming. As your organization begins to plan its new year, start planning to help with E-Days 2000!!! Meetings will be held on the following dates to help organizations figure out how and what they can do! February 8, March 7, March 28, and April 4. Questions? Contact Jessica Jordet 303-273-3908 or jjordet@mines.edu

FCA

The Fellowship of Christian Athletes meets Wednesdays at 7:30 PM in the Projection Room on the second floor of Volk Gymnasium. All are welcome: Christians, athletes, both, or neither. For more information email fbuckner@mines.edu.

FCC

Fellowship of Christian Cowboys (and girls), the 1996-97 New Club of the Year, meets weekly on Thursday at 6 information, email derjacks@mines.edu or visit the website. http://www.mines.edu/Stu_life/organ/fcc.

GLBE

Gay, Lesbian, Bisexual Engineers meetings held twice monthly with social events throughout the month. For more information contact glbe@mines.edu or visit our website at www.mines.edu/Stu_life/organ/glbe

Karate Club

CSM Karate Club has a new schedule! Monday and Wednesday from 6:30-8:00 PM in the Student Center Ballrooms.

Karate is a tremendous way to stay in great physical shape, tune mental concentration skills and gain confidence about personal security. Spectators and new students are welcome anytime. For more information call Amir at 303-216-2183 or email achaghaj@mines.edu.

Kayak Club

Kayak Club holds pool sessions every Monday from 7:30-9:30 PM. Everyone is welcome from beginners to advanced. Contact Jason at (303) 273-0507 or email jlegore@mines.edu.

Kendo Club

The CSM Kendo Club will meet Wednesday evenings, 7-9pm, in the Student Center ballrooms.

Kendo is the ancient art of Japanese fencing that evolved from the life and practice the Samurai warrior. New students and spectators are welcome anytime. For more information call Sensei King at 303-795-9040 or email fourex@aol.com.

LDSSA

All students are invited to enjoy lunch for \$1 and a guest speaker at the Latter Day Saint Student Association's Friday Forum. Every Friday at noon at 1212 Arapahoe Street. Email aolson or jgibbs for more information.

Outdoor Recreation Center

There is still space available for the **Avalanche Awareness** course to be held on Friday evening, Feb. 25th and Saturday, Feb. 26th. Cost is \$35 for students, \$45 for non-students. Call the ORC at 303.278.6202 for more information.

SCA

Fighter Practice: Tuesdays 7-9 PM in the Field House. Questions? Contact David at (303) 215-6243 or dclement@mines.edu.

Sober Drivers

Need a ride home on Friday or Saturday night between 9 PM and 3 AM? Call Kappa Sigma Sober Driver Program at (303) 279-9951. You must be within 15 minutes of campus.

Society of Women Engineers

The next SWE meeting is on Wednesday at noon in Coolbaugh 209. For more info, email aama@mines.edu

Ultimate Frisbee Organization

Practices on Kadafar commons every Tuesday and Wednesday at 4-5:30 PM. All are welcome to come practice with us for competitive play against other schools. Also, official UFO CSM frisbees are available for \$8. For more information contact Steve at (303) 271-9972 or sgrigel@mines.edu.

Valentine's Day

Would you like to place a personal ad? Looking for a date for the holiday? Would you like to tell your sweetheart how much he/she means to you? Keep your messages under 25 words and send them to The Oredigger at oredig@mines.edu by February 4 and we will print them for FREE in the next issue of the paper, to be published on February 10.

Val-O-Grams

Val-O-Grams will be for sale in the Student Center Feb. 7-11 from 11 a.m. until 1 p.m. A heart shaped balloon, a card and Pez candy dispenser will be delivered on campus. One for \$3 or 2 for \$5.

Waterpolo

The article is on the waterpolo team here at Mines. Our club president advised me to e-mail it to you. If you have any questions on concerns please contact me at either hbarker@mines.edu or althea33@hotmail.com.

Women's Ultimate Frisbee Team

Want to have fun, make friends, and get in shape? Come be a part of Mines first ever Women's Ultimate Frisbee Team. No experience is required. First meeting Thursday, September 9, at 5:30 pm at Kafadar Commons. For more information call Julie West at 303-278-7431.

Workshops

Wed., Feb. 2: Let's Get Motivated! Wed., Feb. 9: Test Your Best Wed. Feb. 16: Balance-Get Good Grades & Still Have Fun. Wed., Feb. 23: Rapid Read Your Textbooks. All workshops are in Student Center room 236 from noon until 1 p.m. For more information call Student Development and Academic Services, 273-3377.

Placing a Miner Note

The easiest way for the student body to see your upcoming meeting or event is to place a Miner Note. Please submit all Miner Notes by email or hard copy the Friday before publication. There is no charge for the service.

CLASSIFIED ADS

Bartending JOBS are in Demand. The fun jobs. Earn \$15-30/hr. Job placement assistance. Call Now!!! \$199 Back-to-School Special ends soon. Call 303-758-5000 or 1-800-BARTEND

Help Wanted. The CSM Phonathon has openings for callers. Great Pay, Flexible Hours. For more information, call Mary Ann at 303-273-3141.

Help Wanted. Part time student help in Office of Institutional Advancement. Work 8-10 hours per week, Monday-Friday, between 8:00 a.m.-5:00 p.m. For more information, call 303-273-3141.

Help Wanted. Mother's helper wanted. Very flexible part time. \$7.00/hr and must drive. Very close to campus. For details call Anne at 303 278-1639, or cell 303 517-6726.

Browse icpt.com WIN a FREE trip for Springbreak "2000". ALL destinations offered. Trip Participants, Student Orgs & Campus Sales Reps wanted. Fabulous parties, hotels & prices. For reservations or Rep registration. Call Inter-Campus Programs 800-327-6013.

Spring Break 2000 MAZATLAN & CANCUN from \$399 7 Nights, 14 Free Meals, 23 Hours of Free Drinks Go With The Biggest and Best. **Play Before U Pay. 6 Month Payment Plan Available.** Ask How!! 1-800-395-4896 www.collegetours.com

Please submit all classified adds the Friday before publication. Multiple week notices are available. Space is on a first-come first-served basis.

Answer to Super Crossword

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